

Periodic Table Basics

Step 1: Complete the squares for each element by adding the atomic number, name, and atomic mass.

Write the atomic number at the top of the square.

Write the element's name under the symbol.

Write the atomic mass at the bottom of the square.

Step 2: Determine the number of protons, neutrons, and electrons in each element.

Step 3: Create a Bohr diagram for each element.

Step 4: Draw the Lewis Structure for each element.

5

B

Boron

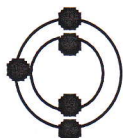
10.81

P = 5


N = 6

E = 5

Bohr Diagram:



Lewis structure:



Step 5: Use the following colors to shade in the square for each element. You should ONLY color in the small square in the upper left-hand corner and not the entire card.

Green = Li & Na

Pink = O & S

Blue = Be & Mg

Purple = F & Cl

Orange = B & Al

Red = C & Si

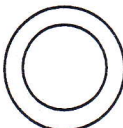
Tan = N & P

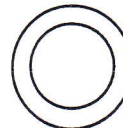
Yellow = He, Ne, & Ar

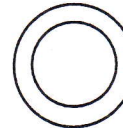
Step 6: Cut the cards apart and arrange according to atomic number in the pattern shown below. Once you have the cards arranged in the correct order, glue them to a large sheet of construction paper.


1							2
3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18

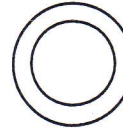
Step 7: Answer the questions on the back of this worksheet using the information on your Periodic Table.

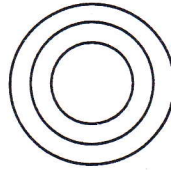
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">B</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	B

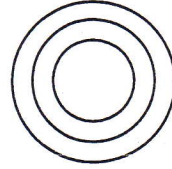
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">Li</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	Li

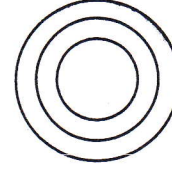
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">Ne</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	Ne


<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">He</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	He

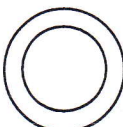
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">C</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	C

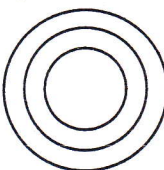
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">P</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	P

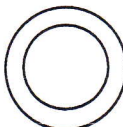
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">S</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	S

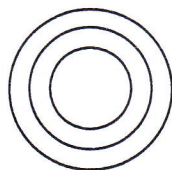
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">Mg</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	Mg

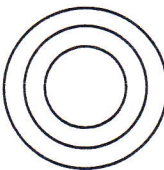
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto; text-align: center;">H</div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> <div style="border-bottom: 1px solid black; width: 50px; margin: 0 auto;"></div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure	H

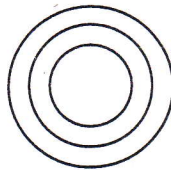
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">N</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure N	

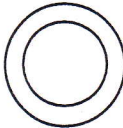
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Al</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Al	

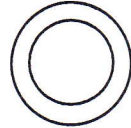
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">F</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure F	

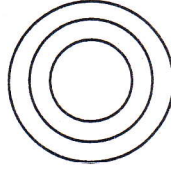
<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Ar</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Ar	

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Si</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Si	

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Na</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Na	

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Be</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Be	

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">O</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure O	

<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 5px; left: 50px;">Cl</div> <div style="position: absolute; bottom: 5px; left: 50px;">_____</div> <div style="position: absolute; bottom: 5px; left: 10px;">_____</div> </div>	P = ____ N = ____ E = ____
Bohr Diagram	
	
Lewis Structure Cl	